

Project Title	Funding	Institution
Young development of a novel pet ligand for detecting oxytocin receptors in brain	\$261,360	Emory University
White matter glial pathology in autism	\$145,689	East Tennessee State University
Vasopressin receptor polymorphism and social cognition	\$373,005	Agnes Scott College
Using functional physiology to uncover the fundamental principles of visual cortex	\$307,593	Carnegie Mellon University
Using fruit flies to map the network of autism-associated genes	\$31,249	University of California, San Diego
Ube3a requirements for structural plasticity of synapses	\$0	University of North Carolina at Chapel Hill
Typical and pathological cellular development of the human amygdala	\$383,750	University of California, Davis
Transcriptional responsiveness in lymphoblastoid cell lines	\$52,863	University of Pennsylvania
Towards an endophenotype for amygdala dysfunction	\$380,304	California Institute of Technology
To study the relationship between decreased hepatocyte growth factor (HGF) and glutamate excitotoxicity in autistic children	\$7,228	Health Research Institute/Pfeiffer Treatment Center
The role of Fox-1 in neurodevelopment and autistic spectrum disorder	\$145,757	University of California, Los Angeles
The role of CNTNAP2 in embryonic neural stem cell regulation	\$75,000	Johns Hopkins University School of Medicine
The neural correlates of transient and sustained executive control in children with autism spectrum disorder	\$0	University of Missouri
The neural basis of weak central coherence in autism spectrum disorders	\$13,040	Yale University
The microstructural basis of abnormal connectivity in autism	\$332,991	University of Utah
The integration of interneurons into cortical microcircuits	\$75,000	New York University School of Medicine
The effects of autism on the sign language development of deaf children	\$47,210	Boston University
The cognitive neuroscience of autism spectrum disorders	\$1,102,811	National Institutes of Health
Taste, smell, and feeding behavior in autism: A quantitative traits study	\$570,508	University of Rochester
Synchronous activity in networks of electrically coupled cortical interneurons	\$0	University of California, Davis
Synaptic processing in the basal ganglia	\$378,166	University of Washington
Structural brain differences between autistic and typically-developing siblings	\$13,020	Stanford University
Structural and functional connectivity of large-scale brain networks in autism spectrum disorders	\$168,978	Stanford University
Stimulus-driven attention deficits in autism	\$60,000	University of Minnesota
Statistical analysis of biomedical imaging data in curved space	\$326,619	University of North Carolina at Chapel Hill
Social brain networks for the detection of agents and intentions	\$413,750	Yale University
Social behavior deficits in autism: Role of amygdala	\$92,074	State University of New York Upstate Medical Center
Social and affective components of communication	\$298,757	Salk Institute For Biological Studies
Serotonin signal transduction in two groups of autistic patients	\$0	University of Illinois at Chicago
Sensory processing and integration in autism	\$550,283	Albert Einstein College of Medicine of Yeshiva University
Self-injurious behavior: An animal model of an autism endophenotype	\$0	University of Florida
Roles of miRNAs in regulation of Foxp2 and in autism	\$0	Louisiana State University

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Role of neurexin in the amygdala and associated fear memory	\$25,000	Columbia University
Role of negative regulators of FGF signaling in frontal cortex development and autism	\$0	University of California, San Francisco
Role of micro-RNAs in ASD affected circuit formation and function	\$127,383	University of California, San Francisco
Role of GluK6 in cerebella circuitry development	\$55,826	Yale University
Role of autism-susceptibility gene, CNTNAP2, in neural circuitry for vocal communication	\$0	University of California, Los Angeles
RI: Small: Addressing visual analogy problems on the raven's intelligence test	\$165,546	Georgia Tech Research Corporation
Retrograde synaptic signaling by Neurexin and Neuroligin in C. elegans	\$250,000	Massachusetts General Hospital
Regulation of synaptogenesis by cyclin-dependent kinase 5	\$180,264	Massachusetts Institute of Technology
Regulation of activity-dependent ProSap2 synaptic dynamics	\$33,879	Stanford University
Psychobiological investigation of the socioemotional functioning in autism	\$347,305	Vanderbilt University
Proteome and interaction networks in autism	\$31,250	Harvard Medical School
Presynaptic regulation of quantal size by the cation/H <sup>+</sup> exchangers NHE6 & NHE9	\$29,650	University of California, Berkeley
Preference acquisition in children and adolescents with and without autism spectrum disorder	\$28,000	Dalhousie University
PI3K/mTOR signaling as a novel biomarker and therapeutic target in autism	\$100,000	Emory University
Physiology of attention and regulation in children with ASD and LD	\$352,532	Seattle Children's Hospital
Phonological processing in the autism spectrum	\$0	Heriot-Watt University
Perturbed cortical patterning in autism	\$0	Seattle Children's Hospital
Perturbed activity-dependent plasticity mechanisms in autism	\$158,034	Harvard Medical School
Novel computational methods for higher order diffusion MRI in autism	\$665,572	University of Pennsylvania
Novel approaches for investigating the neurology of autism: Detailed morphometric analysis and correlation with motor impairment	\$0	Kennedy Krieger Institute
Neuroprotective effects of oxytocin receptor signaling in the enteric nervous system	\$25,000	Columbia University
Neuropeptide regulation of juvenile social behaviors	\$14,755	Boston College
Neuropathology of the social-cognitive network in Autism: a comparison with other structural theories	\$100,198	University of Oxford
Neuroligins and neurexins as autism candidate genes: Study of their association in synaptic connectivity	\$0	University of California, San Diego
Neuroligin, oxidative stress and autism	\$75,000	Oklahoma Medical Research Foundation
Neuroimaging of top-down control and bottom-up processes in childhood ASD	\$386,859	Georgetown University
Neuroimaging of social perception	\$242,812	University of Virginia

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Neurodevelopmental mechanisms of social behavior (supplement)	\$198,063	University of Southern California
Neurodevelopmental mechanisms of social behavior	\$331,208	University of Southern California
Neurocognitive mechanisms underlying children's theory of mind development	\$74,160	University of California, San Diego
Neurobiological signatures of audiovisual speech perception in children in ASD	\$240,420	Haskins Laboratories, Inc.
Neurobiological mechanisms of insistence on sameness in autism	\$0	University of Illinois at Chicago
Neurobiological correlates of language dysfunction in autism spectrum disorders	\$535,464	The Mind Research Network
Neurobehavioral investigation of tactile features in autism spectrum disorders	\$159,480	Vanderbilt University
Neurexin-neuroligin trans-synaptic interaction in learning and memory	\$200,000	Columbia University
Neural underpinning of emotion perception and its disorders	\$15,000	Dartmouth College
Neural systems for the extraction of socially-relevant information from faces	\$51,783	Dartmouth College
Neural synchronydysfunction of gamma oscillations in autism	\$265,073	University of Colorado Denver
Neural mechanisms underlying an extended multisensory temporal binding window in ASD	\$0	Vanderbilt University
Neural mechanisms of tactile sensation in rodent somatosensory cortex	\$256,605	University of California, Berkeley
Neural mechanisms of imitative behavior: Implications for mental health	\$32,696	University of California, Los Angeles
Neural mechanisms for social cognition in autism spectrum disorders	\$112,523	Massachusetts Institute of Technology
Neural basis of empathy and its dysfunction in autism spectrum disorders (ASD)	\$0	Duke University
Neural basis of cross-modal influences on perception	\$154,104	University of California, San Diego
Neural basis of behavioral flexibility	\$360,214	Mount Sinai School of Medicine
Neocortical mechanisms of categorical speech perception	\$240,744	University of California, San Francisco
Multisensory integration in children with ASD	\$229,813	University of California, Davis
Multisensory integration and temporal synchrony in autism	\$35,100	University of Rochester
Multiple systems in theory of mind development	\$0	Rutgers, The State University of New Jersey - New Brunswick
Multimodal studies of executive function deficits in autism spectrum disorders	\$51,942	Massachusetts General Hospital
Multimodal brain imaging in autism spectrum disorders	\$167,832	University of Washington
Multimodal analyses of face processing in autism & down syndrome	\$182,882	University of Massachusetts Medical School
Multidimensional impact of pain on individuals and family functioning in ASD	\$13,000	The Research Foundation of the State University of New York
MTHFR functional polymorphism C677T and genomic instability in the etiology of idiopathic autism in simplex families	\$114,984	Queen's University
Motor skill learning in autism	\$412,236	Kennedy Krieger Institute

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Motor control and cerebellar maturation in autism	\$157,148	University of Texas Southwestern Medical Center
Morphogenesis and function of the cerebral cortex	\$409,613	Yale University
Monolingual and bilingual infants' sensitivity to agreement morphology in Spanish	\$143,650	Florida International University
Molecular mechanisms regulating synaptic strength	\$293,266	Washington University in St. Louis
Molecular controls over callosal projection neuron subtype specification and diversity	\$41,800	Harvard University
MET signaling in neural development and circuitry formation	\$83,810	University of Southern California
Metacognition in comparative perspective	\$210,896	University at Buffalo, The State University of New York
MEG investigation of the neural substrates underlying visual perception in autism	\$128,798	Massachusetts General Hospital
MEG investigation of phonological processing in autism	\$0	University of Colorado Denver
Mathematical cognition in autism: A cognitive and systems neuroscience approach	\$657,886	Stanford University
Macrocephalic autism: Exploring and exploiting the role of PTEN	\$28,000	University of Wisconsin - Madison
Longitudinal neurodevelopment of auditory and language cortex in autism	\$27,942	University of Utah
Linking local activity and functional connectivity in autism	\$365,655	San Diego State University
Linguistic perspective-taking in adults with high-functioning autism: Investigation of the mirror neuron system	\$0	Carnegie Mellon University
Learning in autism spectrum disorders	\$0	University of California, Davis
Learning and plasticity in the human brain	\$286,110	National Institutes of Health
Learning and compression in human working memory	\$84,000	Harvard University
Kinetics of drug macromolecule complex formation	\$712,920	University of California, San Diego
In vivo targeted gene silencing, a novel method	\$218,472	Indiana University-Purdue University Indianapolis
Investigation of social brain circuits in mouse models of the 16p11.2 locus	\$87,500	Cold Spring Harbor Laboratory
Investigating brain connectivity in autism at the whole-brain level	\$90,000	California Institute of Technology
Integrative functions of the planum temporale	\$479,898	University of California, Irvine
Inhibitory mechanisms for sensory map plasticity in cerebral cortex	\$320,399	University of California, Berkeley
Infants' developing representation of object function	\$0	University of California, Davis
Imaging synaptic neurexin-neuroligin complexes by proximity biotinylation: Applications to the molecular pathogenesis of autism	\$0	Massachusetts Institute of Technology
Imaging signal transduction in single dendritic spines	\$382,200	Duke University
Imaging PTEN-induced changes in adult cortical structure and function in vivo	\$300,339	University of California, Los Angeles
Identification of candidate genes at the synapse in autism spectrum disorders	\$169,422	Yale University

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How autism affects speech understanding in multitalker environments	\$143,264	University of Maryland, College Park
High throughput screen for small molecule probes for neural network development	\$405,000	Johns Hopkins University
High-throughput DNA sequencing method for probing the connectivity of neural circuits at single-neuron resolution	\$430,650	Cold Spring Harbor Laboratory
Head-fixed recording of sensory learning in mouse autism models	\$60,000	Princeton University
HCC:Small:Computational studies of social nonverbal communication	\$0	University of Southern California
Glutamate signaling in children with autism spectrum disorder	\$57,840	University of California, Davis
Global & targeted profiling of protein, phospho and O-GlcNAc to understand synapses	\$994	University of California, San Francisco
Glial control of neuronal receptive ending morphology	\$418,275	Rockefeller University
Genetic studies of autism-related Drosophila neurexin and neuroligin	\$550,000	University of North Carolina at Chapel Hill
GABAergic dysfunction in autism	\$278,486	University of Minnesota
Function of neurexins	\$466,651	Stanford University
Function and structure adaptations in forebrain development	\$541,770	University of Southern California
Function and dysfunction of neuroligins in synaptic circuits	\$450,000	Stanford University
Functional role of IL-6 in fetal brain development and abnormal behavior	\$41,800	California Institute of Technology
Functional properties and directed connectivity in the face-processing network	\$53,042	Yale University
Functional neuroanatomy of developmental changes in face processing	\$291,933	Medical University of South Carolina
Functional anatomy of face processing in the primate brain	\$1,720,556	National Institutes of Health
Functional analysis of neurexin IV in Drosophila	\$68,652	University of California, Los Angeles
Functional analysis of EFR3A mutations associated with autism	\$31,250	Yale University
Frontostriatal synaptic dysfunction in a model of autism	\$48,398	Stanford University
fMRI study of reward responsiveness of children with autism spectrum disorder	\$53,566	University of California, Los Angeles
fMRI studies of neural dysfunction in autistic toddlers	\$536,393	University of California, San Diego
fMRI studies of cerebellar functioning in autism	\$0	University of Illinois at Chicago
Face perception: Mapping psychological spaces to neural responses	\$79,992	Stanford University
Eye movement dynamics in autism spectrum disorders	\$42,350	Carnegie Mellon University
Exploring the uncanny valley	\$0	Carnegie Mellon University
Experience and cognitive development in infancy	\$100,798	University of California, Davis
Excessive cap-dependent translation as a molecular mechanism underlying ASD	\$0	New York University
Enhancing neurobehavioural and clinical definitions in autism spectrum disorders	\$14,000	Monash University

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Engrailed genes and cerebellum morphology, spatial gene expression and circuitry	\$470,003	Memorial Sloan-Kettering Cancer Center
Elucidation of the developmental role of Jakmip1, an autism-susceptibility gene	\$31,042	University of California, Los Angeles
Elucidating the function of class 4 semaphorins in GABAergic synapse formation	\$337,818	Brandeis University
EEG-based assessment of functional connectivity in autism	\$175,176	Kennedy Krieger Institute
Early expression of autism spectrum disorder in experimental animals	\$54,000	Neurochlore
Dimensions of mind perception	\$0	Harvard University
Diffusion tensor MR spectroscopic imaging in human brain	\$185,213	University of New Mexico Health Sciences Center
Diffuse optical brain imaging	\$182,022	National Institutes of Health
Development of ventral stream organization	\$137,338	University of Pittsburgh
Development of the functional neural systems for face expertise	\$505,729	University of California, San Diego
Development of face processing expertise	\$350,596	University of Toronto
Development of brain connectivity in autism	\$0	New York School of Medicine
Developing novel automated apparatus for studying battery of social behaviors in mutant mouse models for autism	\$0	Weizmann Institute of Science
Dendritic organization within the cerebral cortex in autism	\$0	The Open University
Defining the dynamics of the default network with direct brain recordings and functional MRI	\$144,317	University of Washington
Defining cells and circuits affected in autism spectrum disorders	\$669,298	The Rockefeller University
Decoding 'what' and 'who' in the auditory system of children with autism spectrum disorders	\$237,000	Stanford University
Deciphering the function and regulation of AUTS2	\$28,000	University of California, San Francisco
Cross-modal interactions between vision and touch	\$480,343	Emory University
Corticothalamic circuit interactions in autism	\$50,000	Boston Children's Hospital
Cortical microcircuit dysfunction as a result of MET deficiency: A link to autism	\$33,955	Northwestern University
Controlling interareal gamma coherence by optogenetics, pharmacology and behavior	\$83,521	Massachusetts Institute of Technology
Computational characterization of language use in autism spectrum disorder	\$759,606	Oregon Health & Science University
Communicative and emotional facial expression production in children with autism	\$171,215	University of Massachusetts Medical School
Collaborative research: The path to verb learning	\$0	Temple University
Collaborative research: The path to verb learning	\$0	University of Delaware
Collaborative research: RUI: Perceptual pick-up processes in interpersonal coordination	\$0	College of the Holy Cross

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Collaborative research: Modeling perception and memory: Studies in priming	\$0	University of California, San Diego
Collaborative research: Modeling perception and memory: Studies in priming	\$0	Indiana University
Collaborative research: Learning complex auditory categories	\$0	Carnegie Mellon University
Collaborative research: Learning complex auditory categories	\$0	University of Arizona
Cognitive mechanisms of serially organized behavior	\$346,928	Columbia University
Cognitive control of emotion in autism	\$103,256	University of Pittsburgh
Cognitive control in autism	\$152,627	University of California, Davis
Cochlear efferent feedback and hearing-in-noise perception in autism	\$186,794	University of Rochester
Characterization of the pathological and biochemical markers that correlate to the clinical features of autism	\$0	Research Foundation for Mental Hygiene, Inc.
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Characterization of the pathological and biochemical markers that correlate to the clinical features of autism	\$0	Research Foundation for Mental Hygiene, Inc.
Cerebellar plasticity and learning in a mouse model of autism	\$31,250	University of Chicago
Cerebellar modulation of frontal cortical function	\$309,686	University of Memphis
Cellular density and morphology in the autistic temporal human cerebral cortex	\$345,910	University of California, Davis
Cellular characterization of Caspr2	\$24,666	University of California, San Diego
Cell adhesion molecules in CNS development	\$535,691	Scripps Research Institute
CDI-TYPE II: From language to neural representations of meaning	\$0	Carnegie Mellon University
Caspr2 as an autism candidate gene: A proteomic approach to function & structure	\$312,000	University of Medicine & Dentistry of New Jersey - Robert Wood Johnson Medical School
CAREER: Typical and atypical development of brain regions for theory of mind	\$27,670	Massachusetts Institute of Technology
CAREER: The role of prosody in word segmentation and lexical access	\$0	Michigan State University
CAREER: Statistical models and classification of time-varying shape	\$404,961	University of Utah
CAREER: Model-based fMRI of human object recognition	\$0	Georgetown University
CAREER: Integrative behavioural and neurophysiological studies of normal and autistic cognition using video game environments	\$0	Cornell University
CAREER: Dissecting the neural mechanisms for face detection	\$0	California Institute of Technology
Canonical neural computation in autism spectrum disorders	\$200,717	New York University
Brain lipid rafts in cholesterol biosynthesis disorders	\$60,480	Medical College of Wisconsin
Brain circuitry in simplex autism	\$0	Washington University in St. Louis
Brain bases of language deficits in SLI and ASD	\$651,988	Massachusetts Institute of Technology

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Behavioral and sensory evaluation of auditory discrimination in autism	\$178,529	University of Massachusetts Medical School
Behavioral and neural responses to emotional faces in individuals with ASD	\$14,935	Harvard University
Behavioral and neural processing of faces and expressions in nonhuman primates	\$435,600	Emory University
Behavioral and neural correlates of reward motivation in children with autism spectrum disorders	\$27,554	University of North Carolina at Chapel Hill
Behavioral and functional neuroimaging investigations of visual perception and cognition in autistics	\$0	Université de Montréal
Autism spectrum disorders and the visual analysis of human motion	\$125,000	Rutgers, The State University of New Jersey
Autism and the insula: Genomic and neural circuits	\$506,341	California Institute of Technology
Atypical late neurodevelopment in autism: A longitudinal MRI and DTI study (supplement)	\$154,416	University of Utah
Atypical late neurodevelopment in autism: A longitudinal MRI and DTI study	\$469,620	University of Utah
Atypical architecture of prefrontal cortex in young children with autism	\$565,183	University of California, San Diego
Attentional distribution and word learning in children with autism	\$0	Brown University
Are neuronal defects in the cerebral cortex linked to autism?	\$0	Memorial Sloan-Kettering Cancer Center
Architecture of myelinated axons linking frontal cortical areas	\$0	Boston University
A neural model of fronto-parietal mirror neuron system dynamics	\$183,344	University of Maryland, College Park
Anatomy of primate amygdaloid complex	\$75,629	University of California, Davis
Alterations in brain-wide neuroanatomy in autism mouse models	\$0	Cold Spring Harbor Laboratory
A functional genomic analysis of the cerebral cortex	\$85,471	University of California, Los Angeles
A developmental social neuroscience approach to perception-action relations	\$0	Temple University
Action anticipation in infants	\$98,745	University of Chicago
A comparative developmental connectivity study of face processing	\$229,574	Medical University of South Carolina
ACE Center: Systems connectivity + brain activation: imaging studies of language + perception	\$426,284	University of Pittsburgh
ACE Center: Neuroimaging studies of connectivity in ASD	\$324,271	Yale University
ACE Center: Mirror neuron and reward circuitry in autism	\$302,654	University of California, Los Angeles
ACE Center: Imaging the autistic brain before it knows it has autism	\$197,682	University of California, San Diego
ACE Center: Disturbances of affective contact: Development of brain mechanisms for emotion	\$157,294	University of Pittsburgh
ACE Center: Diffusion tensor MRI + histopathology of brain microstructure + fiber pathways	\$1	University of Pittsburgh
ACE Center: Development of categorization, facial knowledge in low & high functioning autism	\$392,439	University of Pittsburgh



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ACE Center: Cognitive affective and neurochemical processes underlying is in autism	\$378,379	University of Illinois at Chicago
Abnormal connectivity in autism	\$15,000	University of California, Los Angeles

